# PRELIMINARY ASSESSMENT REPORT

Doyle, Frank J.

EPA ID NO. TXD980865109

LEONARD, FANNIN COUNTY, TEXAS

*May 1997*

Prepared for:

Environmental Protection Agency

Dallas, TX

Fluor Daniel, Inc.
Submitted by:

for Wendy Bigley
Project Geologist

Fluor Daniel, Inc.
Approved by:

Bill Park
Project Manager

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## 1.0 INTRODUCTION

Under the authority of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) and the Superfund Amendments and Reauthorization Act of 1986 (SARA), the U.S. Environmental Protection Agency (EPA), Waste Management Division, Region 6 conducted a Preliminary Assessment (PA) at the Doyle, Frank J. site in Leonard, Fannin County, Texas. The purpose of this investigation was to collect information concerning conditions at the site sufficient to assess the threat posed to human health and the environment and to determine the need for additional CERCLA/SARA or other appropriate action. The scope of the investigation included review of available file information, a comprehensive target survey, and an onsite reconnaissance.

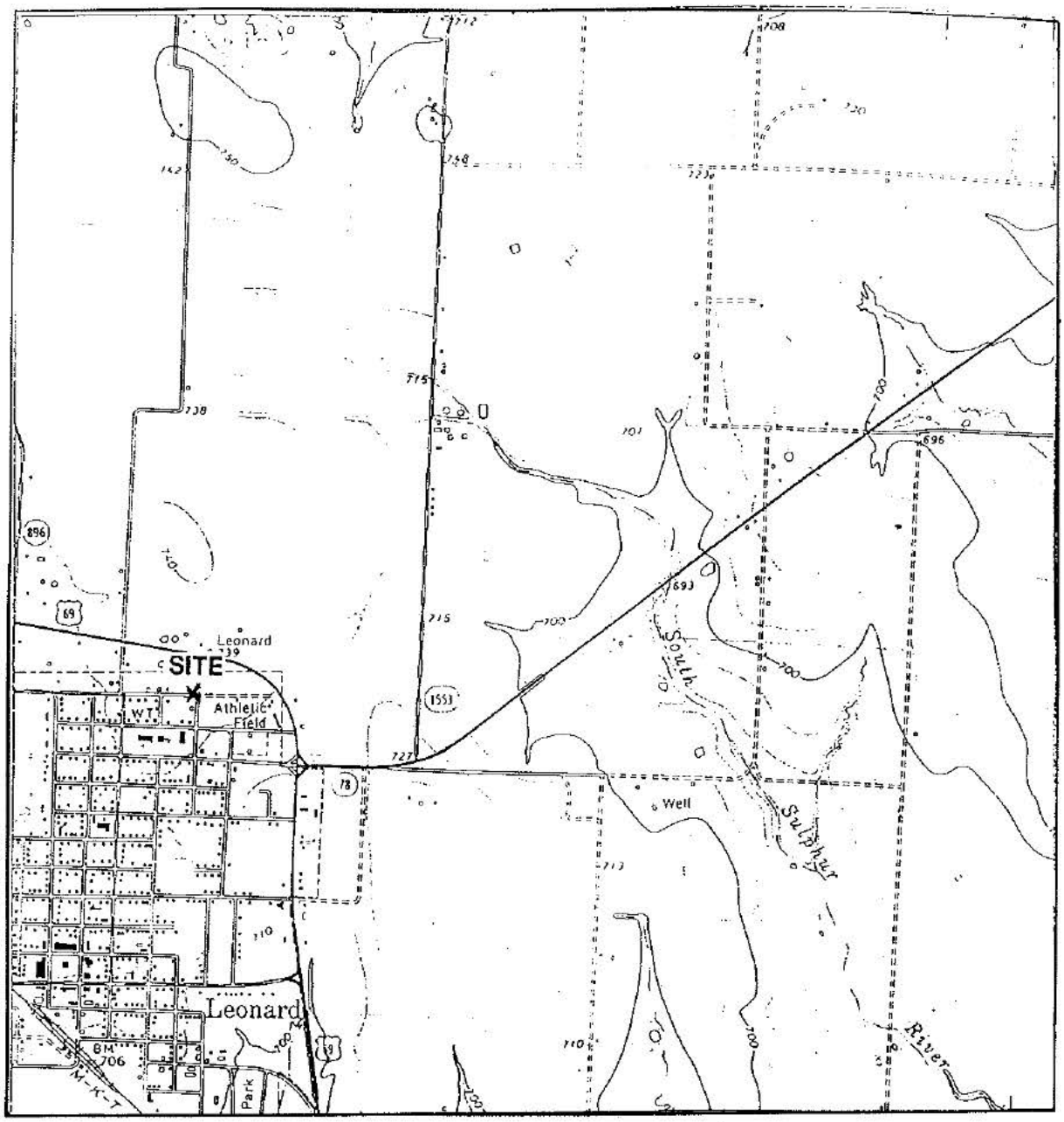
## 2.0 SITE DESCRIPTION, OPERATIONAL HISTORY, AND WASTE CHARACTERISTICS

### 2.1 Site Description

The Doyle, Frank J. site, hereafter referred to as the Frank J.Doyle Transformer site is located at (b) (6) (b) (6) in a predominately residential area of Leonard, Fannin County, Texas (Figure 1- Site Location Map). The geographical coordinates are 33° 23' 23" North latitude and 96° 14' 34" West longitude (Figure 1 ). To reach the site from Dallas, travel north on Hwy 78, turn west on Hackberry Street, then north on Poplar Street. The site is located on the corner of Poplar and Cottonwood. The site is bound on the north, south, and west by residential homes and the Leonard High School to the east (Figure 2- Site Sketch).

Frank J. Doyle Transformer site is approximately 0.6 acres in size (Figure 2). There is one shop building located on site. The shop houses two draining tables used to drain residual oil out of transformers. The yard of the site consists of a cement drive and gravel ground cover. In the southwest corner of the site is a concrete pad that is used to store 55 gallon drums and three (two 500 gallon and one 375 gallon) tanks located inside a concrete containment area. The used oil storage area is also the point where the used oil is vacuumed out via a vacuum truck and hauled off site for disposal. The gravel yard consists of storage for various sizes of transformers. The yard also contains a twenty yard dumpster that stores general shop refuse. The site is completely surrounded by a wooden fence. There are three gates that lead onto the property located on the north, east and west sides (Figure 2). The gates are secured and locked after business hours.

A site reconnaissance was conducted by Fluor Daniel on May 20, 1997. This site is currently active and




Note:USGS 7.5' Topographic Map, Leonard, TX Quadrangle, 1964.

FLUOR DANIEL

**FIGURE 1**
SITE LOCATION MAP
Doyle, Frank J.
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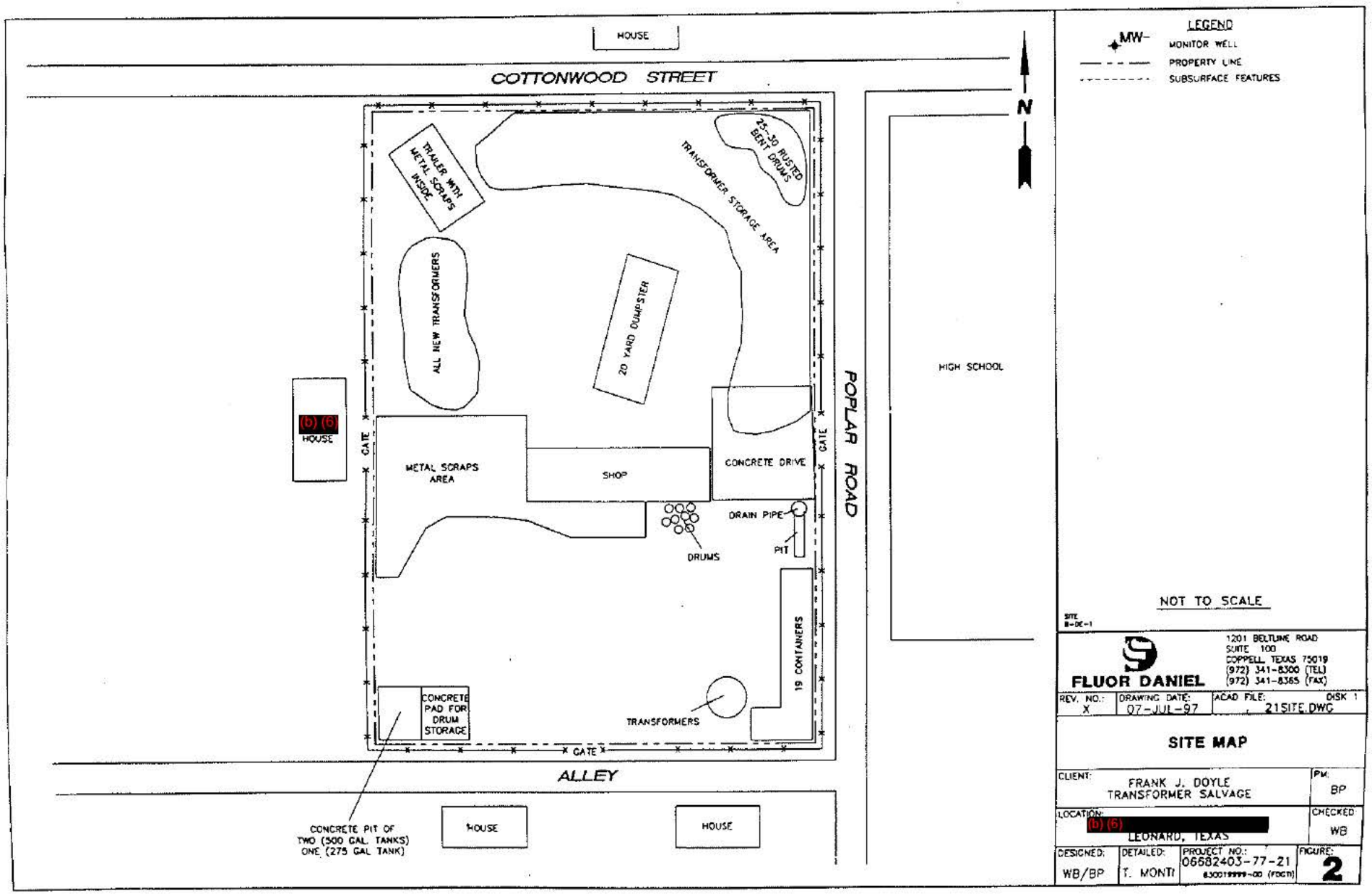
Leonard, Collin County, Texas


HOUSE
COTTONWOOD STREET
N
TRAILER WITH METAL SCRAPS INSIDE
25-30 RUSTED DENT DRUMS
TRANSFORMER STORAGE AREA
ALL NEW TRANSFORMERS
20 YARD DUMPSTER
HIGH SCHOOL
POPLAR ROAD
(b) (6)
HOUSE
GATE
METAL SCRAPS AREA
SHOP
CONCRETE DRIVE
DRAIN PIPE
PIT
DRUMS
19 CONTAINERS
CONCRETE PAD FOR DRUM STORAGE
TRANSFORMERS
GATE
ALLEY
CONCRETE PIT OF TWO (500 GAL. TANKS) ONE (275 GAL TANK)
HOUSE
HOUSE
LEGEND
MW- MONITOR WELL
PROPERTY LINE
SUBSURFACE FEATURES
NOT TO SCALE
SITE B-DE-1
FLUOR DANIEL
1201 BELTLINE ROAD
SUITE 100
COPPELL TEXAS 75019
(972) 341-8300 (TEL)
(972) 341-8365 (FAX)
REV. NO.: X
DRAWING DATE: 07-JUL-97
ACAD FILE: 21SITE.DWG
DISK 1
SITE MAP
CLIENT: FRANK J. DOYLE TRANSFORMER SALVAGE
PM: BP
LOCATION: (b) (6) LEONARD, TEXAS
CHECKED: WB
DESIGNED: WB/BP
DETAILED: T. MONTI
PROJECT NO.: 06682403-77-21
FIGURE: 2

is bordered by residential properties to the north, south and west, and Leonard High School to the east (Figure 2). The owner, Mr. Frank J. Doyle, retired in January 1997 and (b) (6) currently operates the business. The site reconnaissance revealed evidence of soil contamination with yellowish/green staining of the soil (Photos #7 & 8). In addition to the staining on the ground, the area around the shop showed signs of deterioration and staining (Photo #8 ). The site is located on relatively flat terrain that slopes gently toward the northeast boundary (Figure 1).

## 2.2 Operational History

Frank J. Doyle Transformer is currently active and has been in operation since approximately 1974. Mr. Doyle obtains transformers from companies in Texas, Oklahoma, Louisiana and Arkansas. Salvage operations involve recovering oil, wiring and scrap metal from the transformers. Before salvage operations begin, the used oil is pumped out of the transformers and placed in a storage tank located in the southwest corner of the property. The transformer is then placed on a draining table to allow any residual oil to displace. The remaining oil is placed in 55 gallon drums which are stored on a concrete pad also located in the southwest corner of the property. From the late 1970's to early 1980's, the site only accepted non-Polychlorinated Biphenyls (PCB) transformers [Reference 1, pg. 1]. Prior to that, Mr. Doyle used transformer oil for weed control and has distributed the oil to various individuals throughout Leonard for use as a weed killer [Reference 2, pg. 3].

Mr. Frank J. Doyle registered with the Texas Water Commission (TWC) now called the Texas Natural Resources Conservation Commission (TNRCC) in 1993 for various non-hazardous waste generated on site such as; 1.) used oil from non-PCB transformer being scrapped for salvage, 2.) ash residue from furnace used to remove varnish from copper wire, 3.) general plant refuse from office and shop, 4.) various storage containers for used oil including one 375 gallon, two 500 gallon and 55 gallon drums that are stored on a concrete pad located on the southwest corner of the property ( Photos # 11&13 ), 5.) high temperature oven to burn varnish off copper and 6.) a four yard dumpster for the accumulation of plant trash (Photo #15). The registration reflects hazardous and/or industrial waste generated and management activities for which Mr. Doyle has provided notification [Reference 3, pp. 2-25 ].

## 2.3 Waste Characterization

Past site inspections of Frank J. Doyle Transformer include a Site Assessment sampling investigation conducted by the Ecology & Environment's Technical Assistant Team (TAT) on October 12, 1990 and